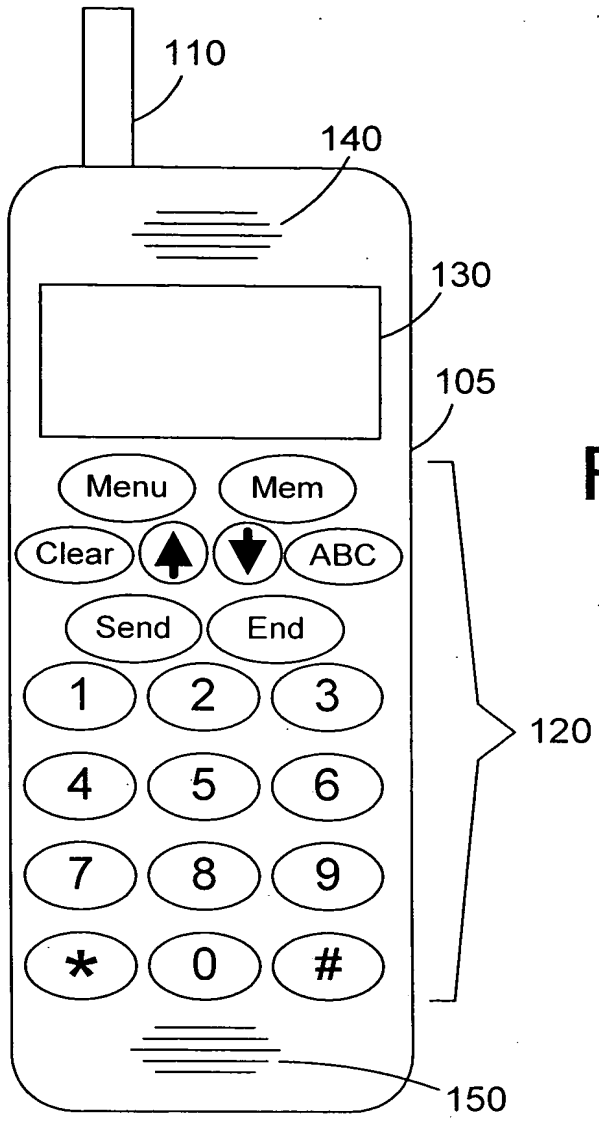
110
100
140
130
105
Menu
Mem
Clear
ABC
Send
End
1
2
3
4
5
6
7
8
9
*
0
#
120
150

FIG. 1

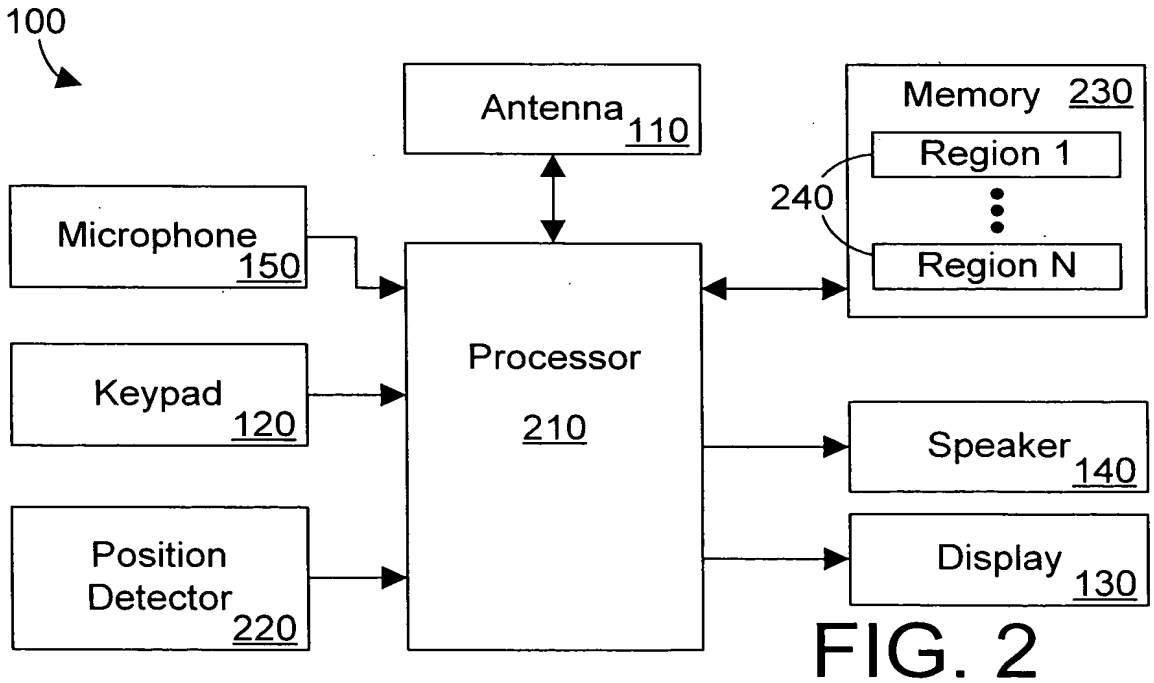
100
Antenna 110
Memory 230
Region 1
240
Region N
Microphone 150
Keypad 120
Position Detector 220
Processor 210
Speaker 140
Display 130

FIG. 2

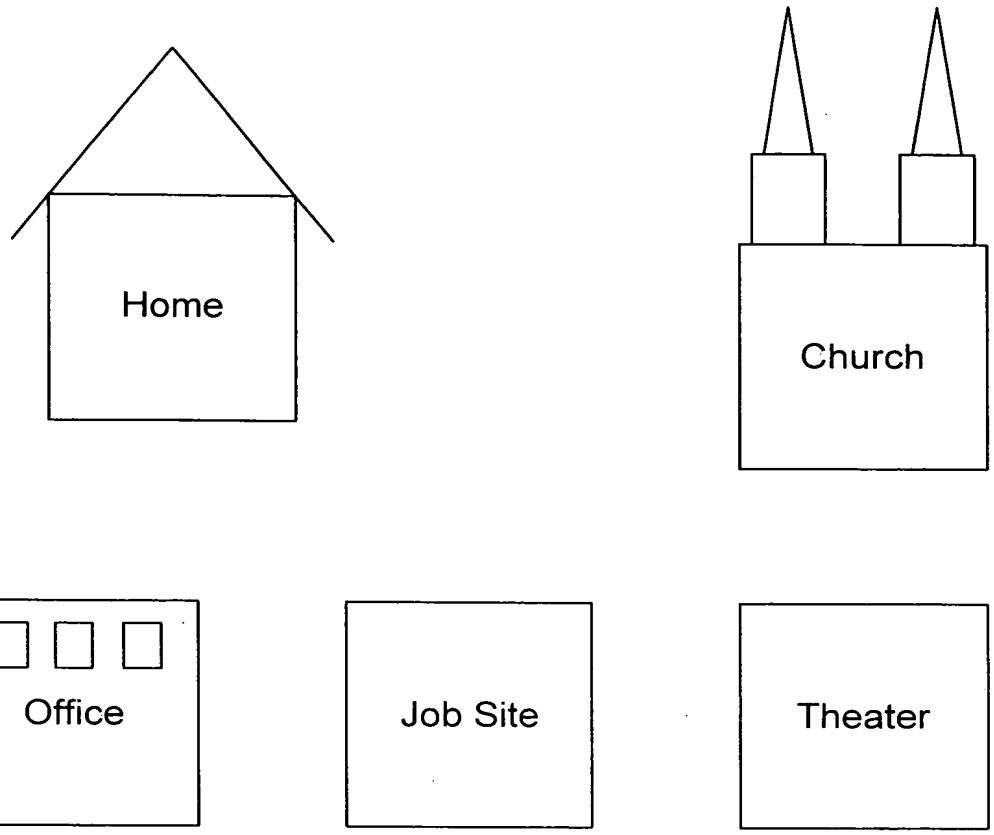

FIG. 3

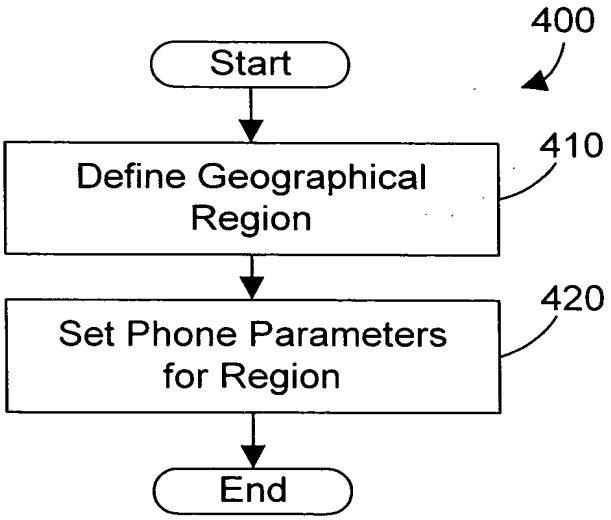

FIG. 4

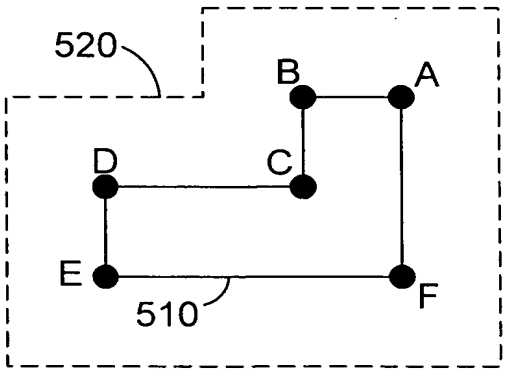

FIG. 5

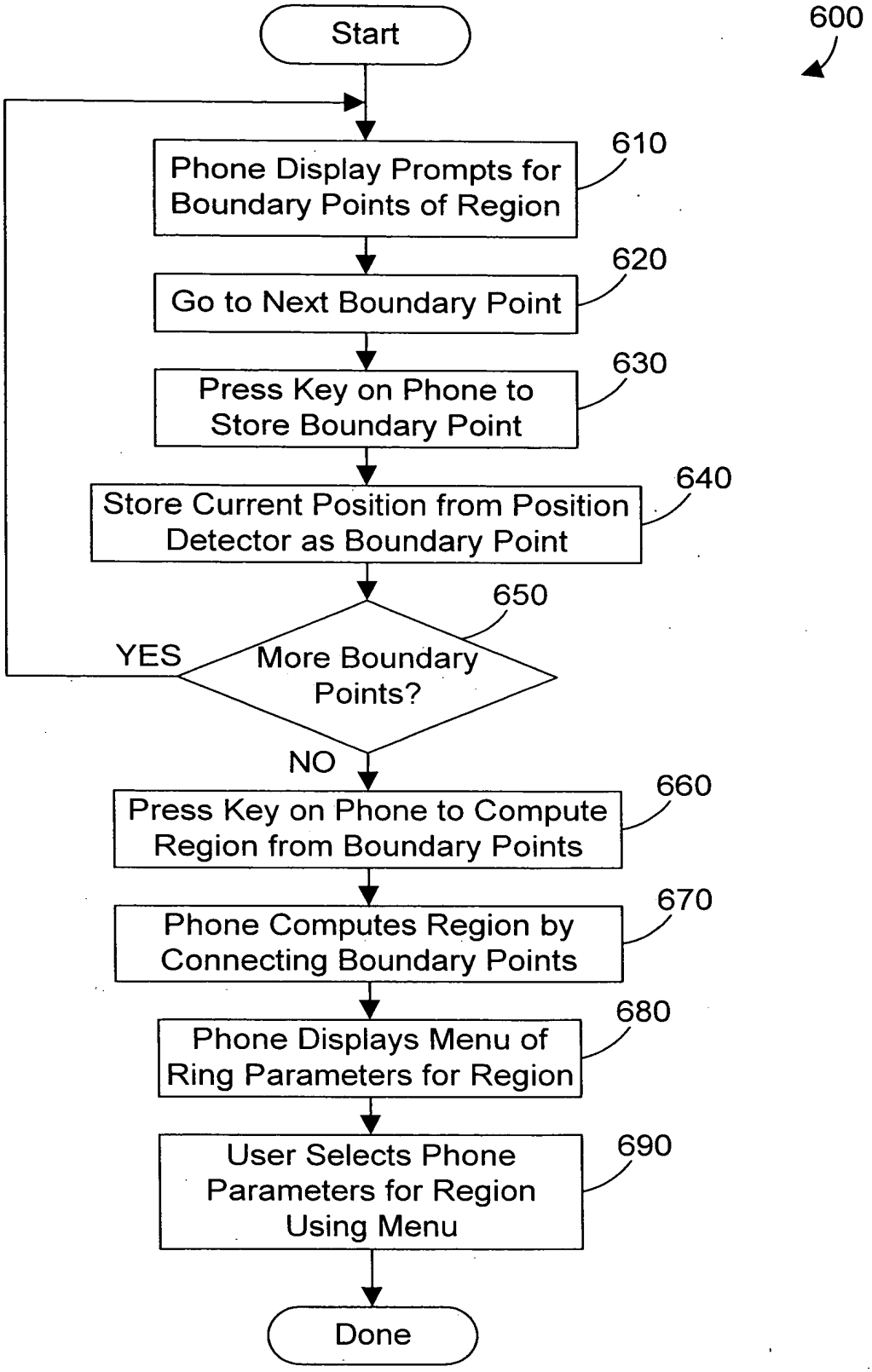
600
Start
Phone Display Prompts for Boundary Points of Region
610
Go to Next Boundary Point
620
Press Key on Phone to Store Boundary Point
630
Store Current Position from Position Detector as Boundary Point
640
More Boundary Points?
650
YES
NO
Press Key on Phone to Compute Region from Boundary Points
660
Phone Computes Region by Connecting Boundary Points
670
Phone Displays Menu of Ring Parameters for Region
680
User Selects Phone Parameters for Region Using Menu
690
Done

FIG. 6

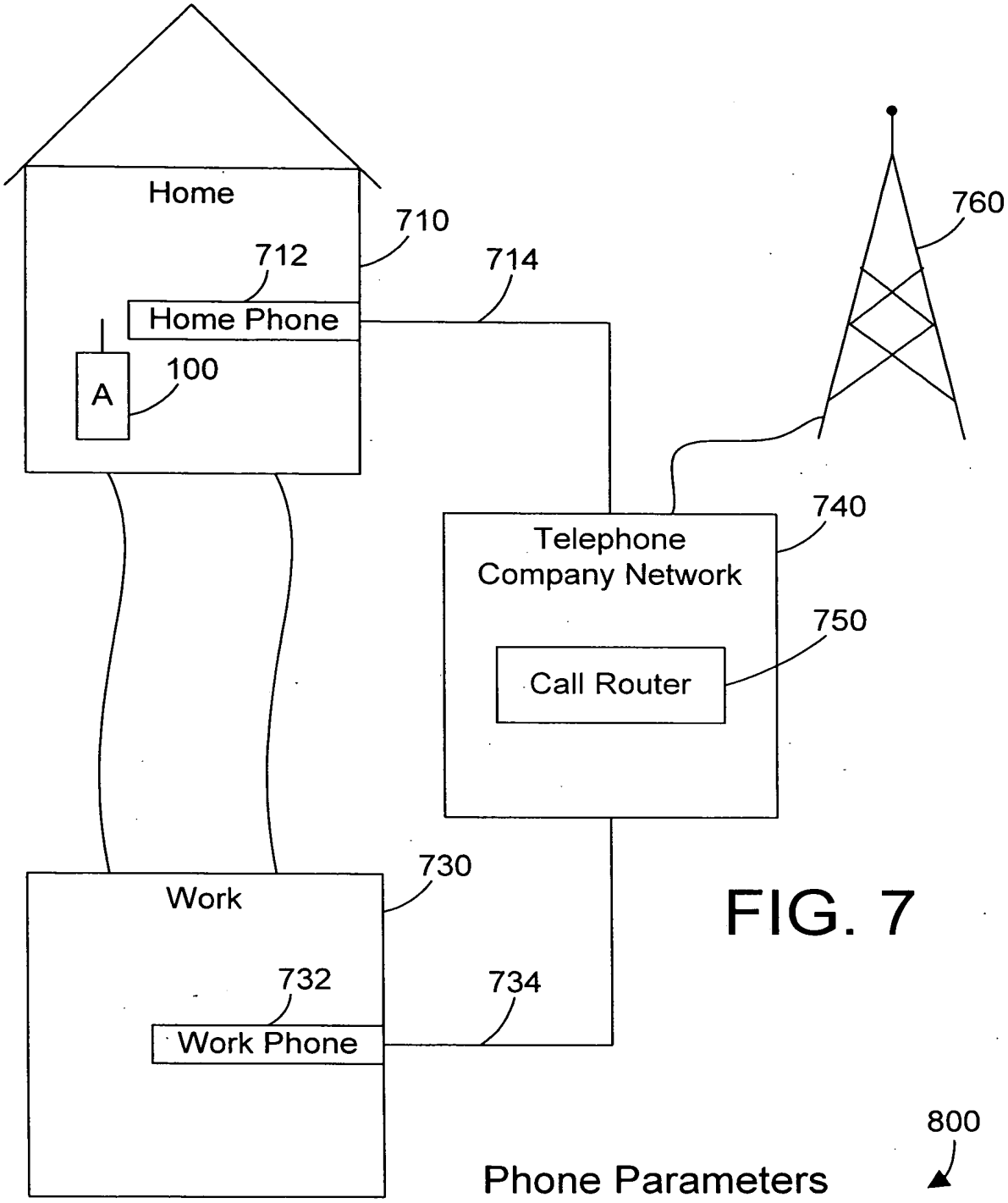

FIG. 7

800

Phone Parameters

Region	Allowed #s	Current #s
Home	555-0011 855-1234	555-0011 855-1234
Work	555-2233 855-1234	555-2233

FIG. 8

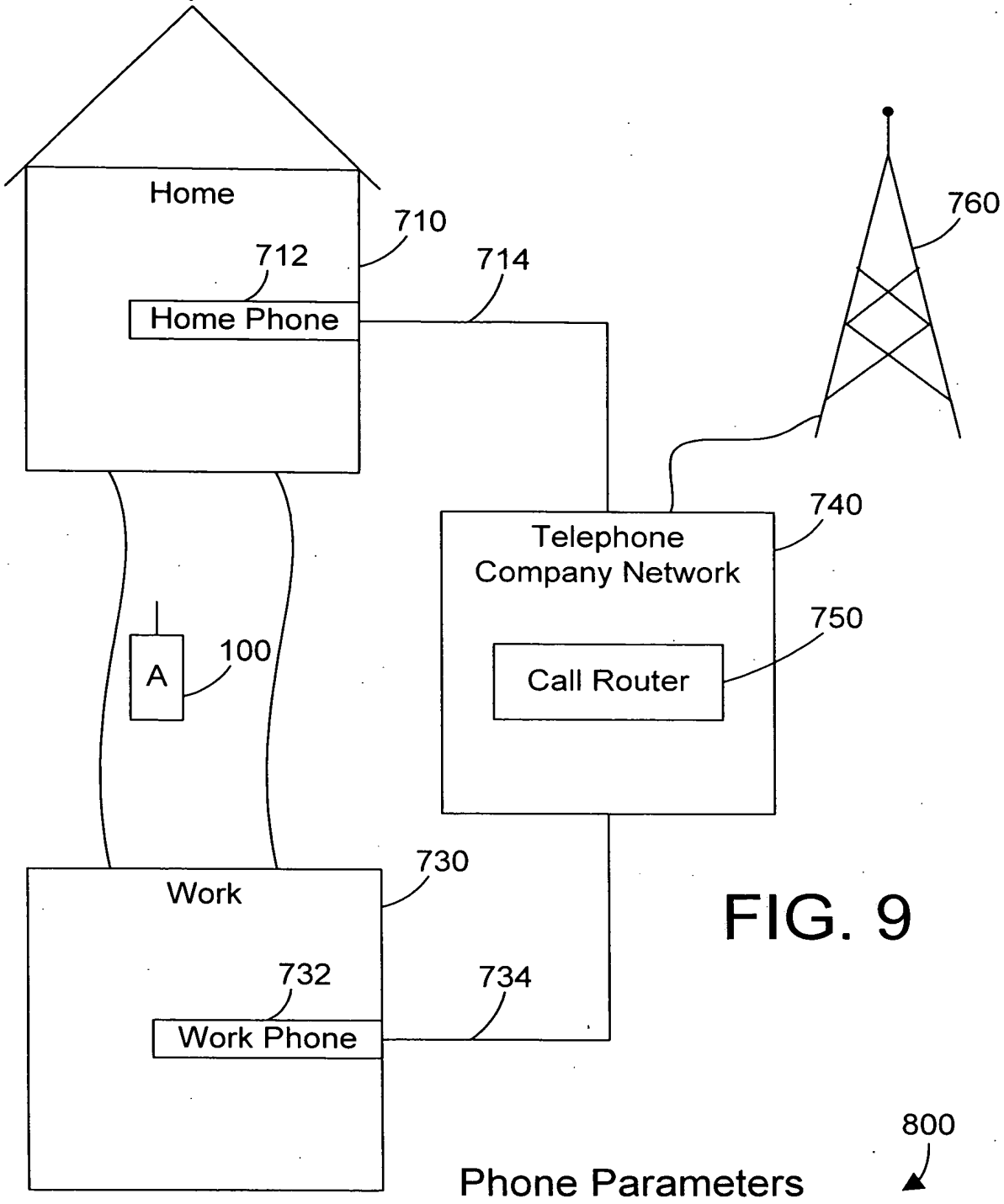

FIG. 9

800

Phone Parameters

Region	Allowed #s	Current #s
Home	555-0011 855-1234	555-0011
Work	555-2233 855-1234	555-2233

FIG. 10

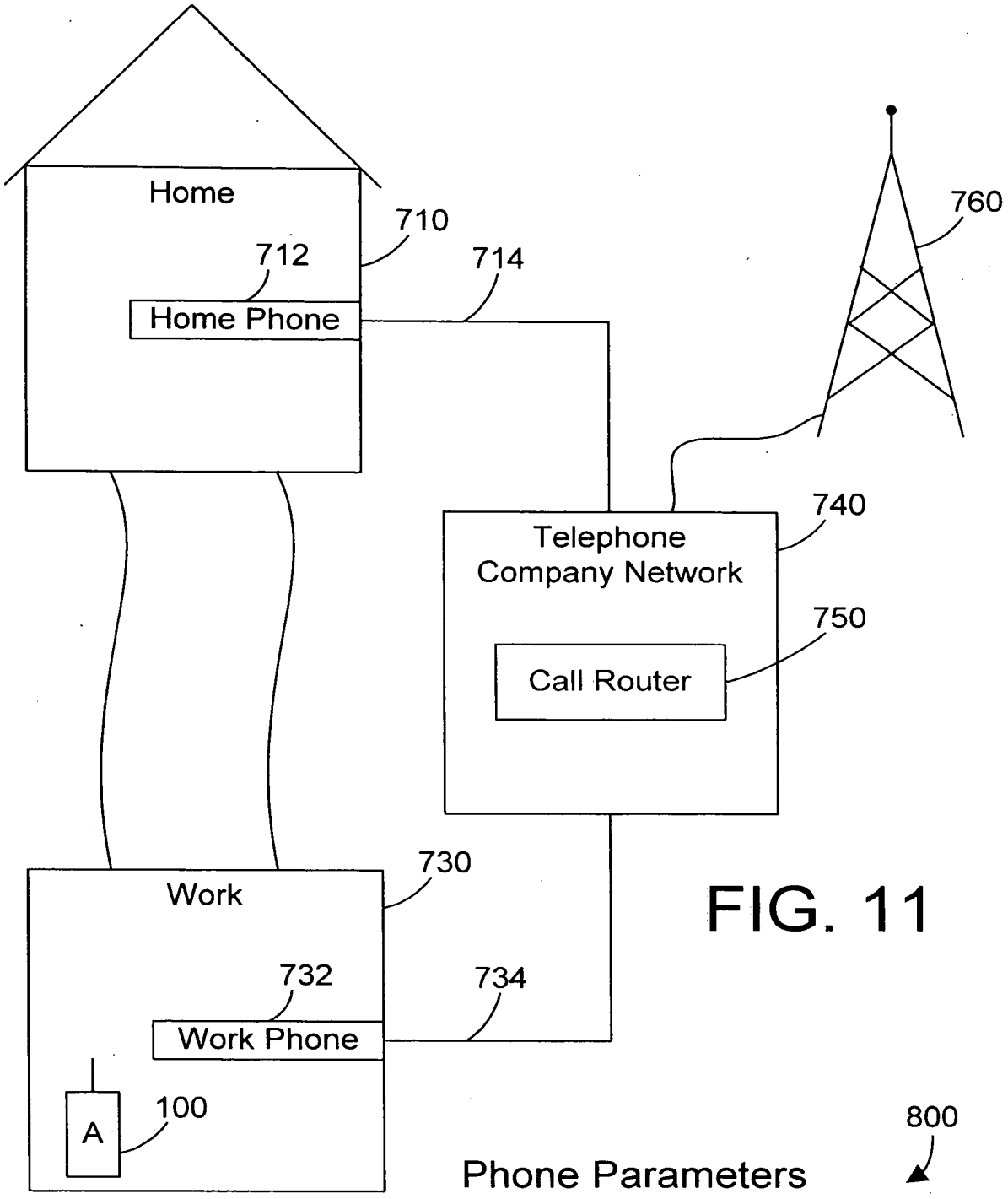

FIG. 11

800

Phone Parameters

Region	Allowed #s	Current #s
Home	555-0011 855-1234	555-0011
Work	555-2233 855-1234	555-2233 855-1234

FIG. 12

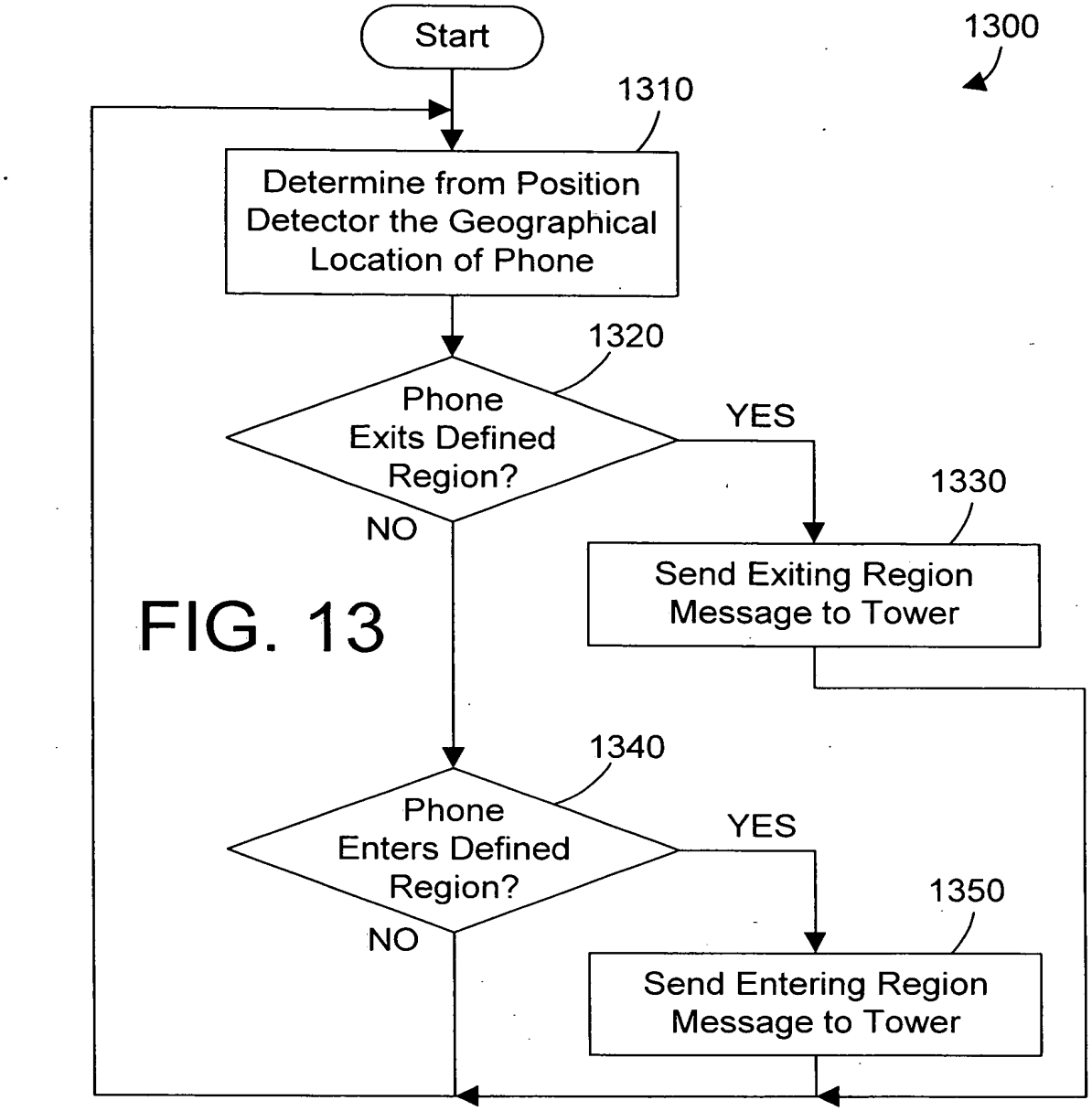
Start
1300
1310
Determine from Position Detector the Geographical Location of Phone
1320
Phone Exits Defined Region?
YES
NO
1330
Send Exiting Region Message to Tower
1340
Phone Enters Defined Region?
YES
NO
1350
Send Entering Region Message to Tower

FIG. 13

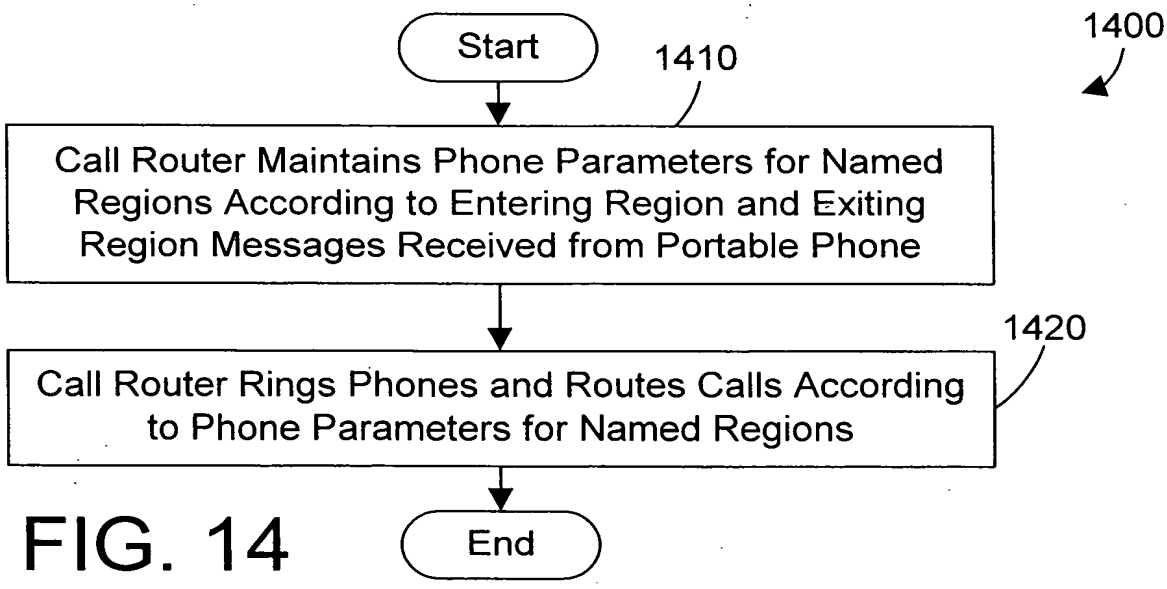
Start
1400
1410
Call Router Maintains Phone Parameters for Named Regions According to Entering Region and Exiting Region Messages Received from Portable Phone
1420
Call Router Rings Phones and Routes Calls According to Phone Parameters for Named Regions
End

FIG. 14

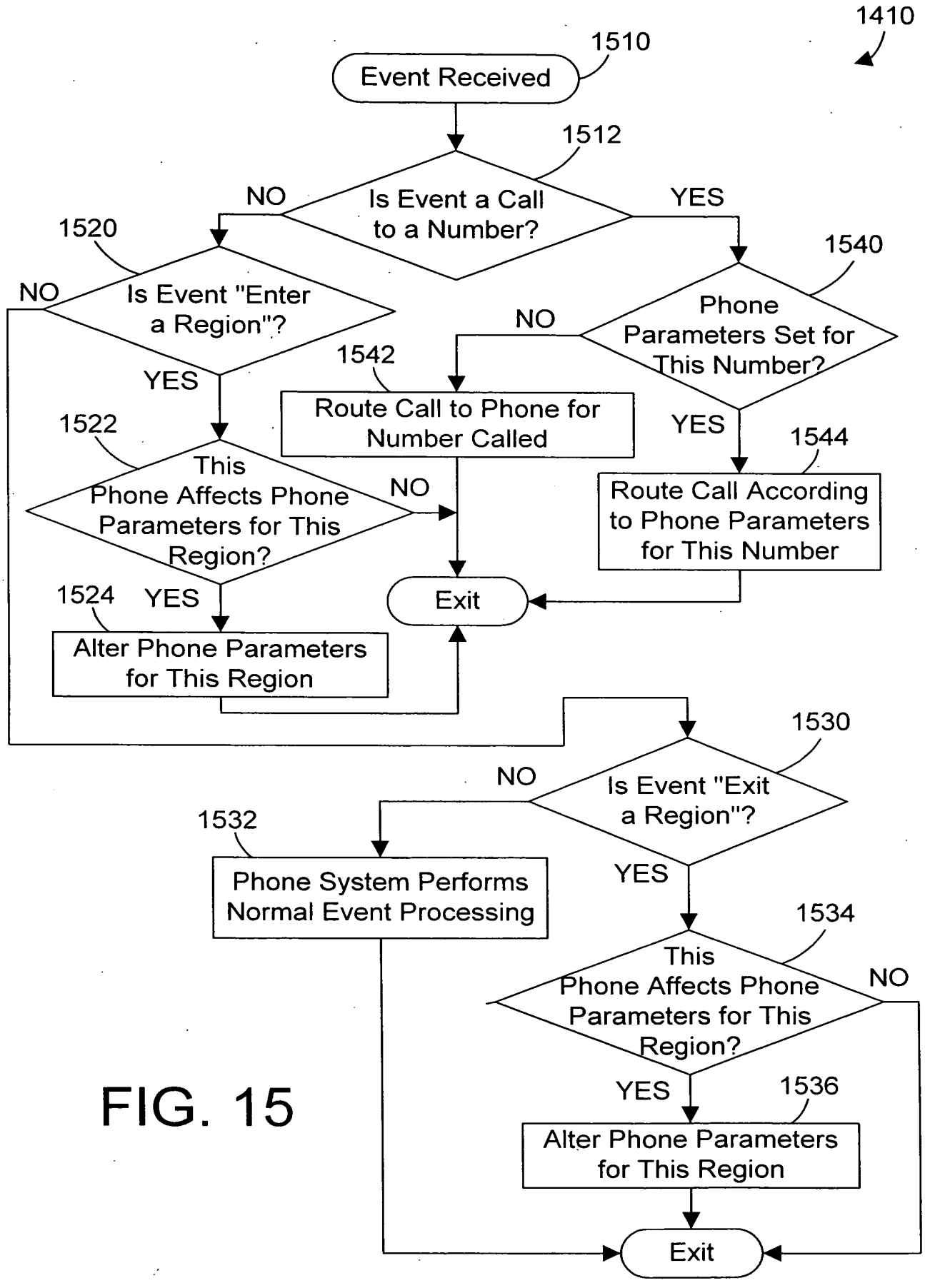
1410
1510
Event Received
1512
Is Event a Call to a Number?
NO
YES
1520
Is Event "Enter a Region"?
NO
YES
1540
Phone Parameters Set for This Number?
NO
YES
1542
Route Call to Phone for Number Called
1522
This Phone Affects Phone Parameters for This Region?
NO
YES
1544
Route Call According to Phone Parameters for This Number
1524
Alter Phone Parameters for This Region
Exit
1530
Is Event "Exit a Region"?
NO
YES
1532
Phone System Performs Normal Event Processing
1534
This Phone Affects Phone Parameters for This Region?
NO
YES
1536
Alter Phone Parameters for This Region
Exit

FIG. 15

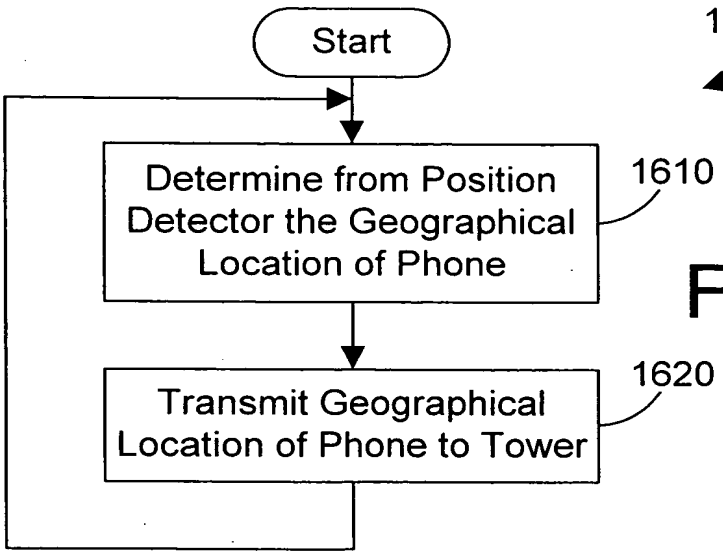
1600
Start
Determine from Position Detector the Geographical Location of Phone
1610
Transmit Geographical Location of Phone to Tower
1620

FIG. 16

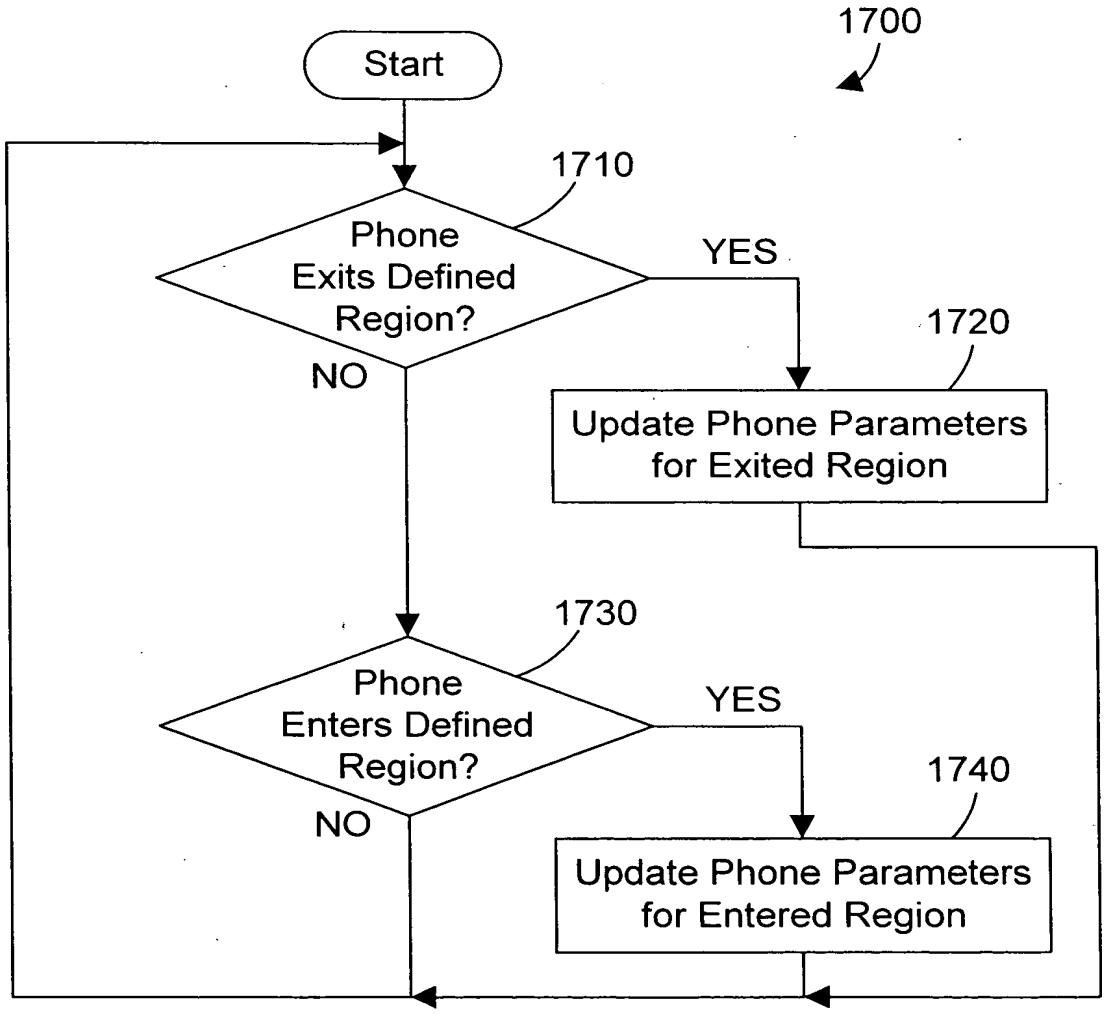
1700
Start
1710
Phone Exits Defined Region?
YES
NO
1720
Update Phone Parameters for Exited Region
1730
Phone Enters Defined Region?
YES
NO
1740
Update Phone Parameters for Entered Region

FIG. 17

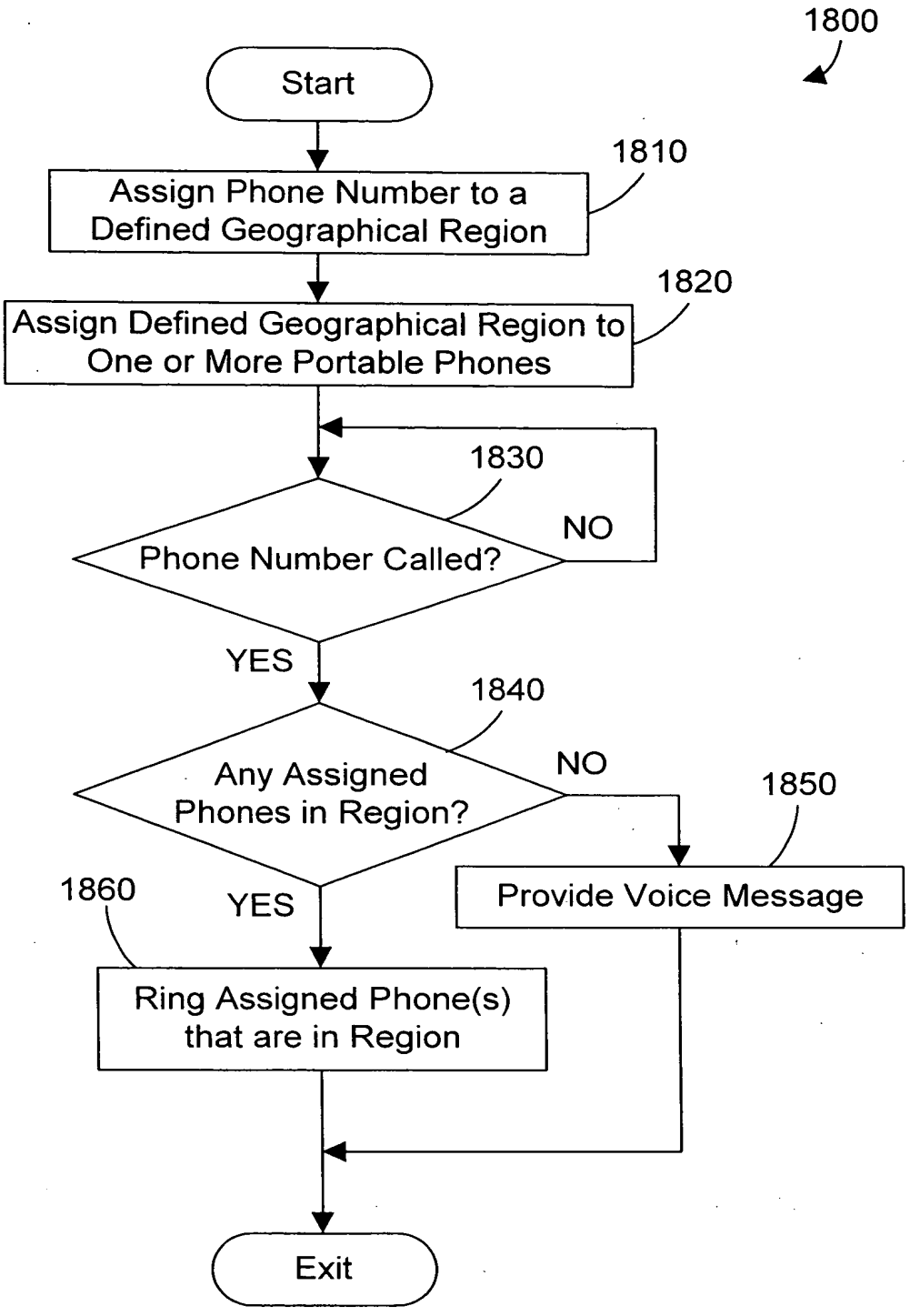
1800
Start
1810
Assign Phone Number to a Defined Geographical Region
1820
Assign Defined Geographical Region to One or More Portable Phones
1830
Phone Number Called?
NO
YES
1840
Any Assigned Phones in Region?
NO
1850
Provide Voice Message
1860
YES
Ring Assigned Phone(s) that are in Region
Exit

FIG. 18